

WHAT IS CLAIMED IS:

1. A dental device comprising thermoplastic polyamide having a Charpy notched impact strength of at least 3.5 ft-lb/in².
2. A dental device comprising thermoplastic polyamide having a Charpy notched impact strength of at least 4.5 ft-lb/in².
3. The device of Claim 1 wherein said polyamide comprises at least 10 percent by weight of micro-crystals having a largest dimension less than 750 nanometers and said polyamide has an opacity less than 30%.
4. The device of Claim 1 wherein said polyamide comprises at least 20 percent by weight of micro-crystals having a largest dimension less than 750 nanometers.
5. The device of Claim 1 wherein said polyamide comprises at least 30 percent by weight of micro-crystals having a largest dimension less than 750 nanometers.
6. The device of Claim 1 wherein said device is a denture, partial denture, clasp, splint, or night guard.
7. The device of Claim 1 wherein said polyamide has an opacity of less than 30 percent.
8. A dental prosthesis comprising semi-crystalline thermoplastic polyamide having a Charpy notched impact strength of at least 3.5.
9. The device of Claim 7 wherein said polyamide comprises at least 10 percent by weight of micro-crystals having a largest dimension less than 750 nanometers.

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10. The device of Claim 7 wherein said polyamide comprises at least 20 percent by weight of micro-crystals having a largest dimension less than 750 nanometers.
11. The device of Claim 7 wherein said polyamide comprises at least 30 percent by weight of micro-crystals having a largest dimension less than 750 nanometers.
12. The device of Claim 7 wherein said device is a denture, partial denture, clasp, splint, or night guard.
13. The device of Claim 7 wherein said polyamide has an opacity of less than 30 percent.
14. A cartridge containing polyamide for making a substantially transparent clasp integrally connected to a denture, comprising: a cartridge and particles of thermoplastic polyamide, said cartridge comprising a metal container and enclosing said particles of thermoplastic polyamide, said particles of thermoplastic polyamide being effectively free of pigment.
15. The cartridge of claim 14 wherein said cartridge further comprises a cover.
16. A kit for making a denture, comprising: a package, a first cartridge and a second cartridge, said package supporting said first cartridge and said second cartridge, said first cartridge enclosing pigment and first particles of thermoplastic, and said second cartridge enclosing second particles of thermoplastic, said second particles of thermoplastic enclosed in said second cartridge being effectively free of pigment.

17. The kit of claim 16 wherein said first cartridge and said second cartridge comprise a metal.

Sub B1 > 18 A removable partial dental prosthesis comprising base, an artificial tooth and a clasp, said base being integrally connected to said clasp, said base comprising pigment and being substantially opaque, said clasp effectively not comprising pigment and being substantially transparent, said base being formed to mate with oral mucosa for support of said prosthesis thereon, said artificial tooth being supported by said base.

19. The dental prosthesis of claim 18 wherein said base and said clasp are formed by molding first particles of thermoplastic from an enclosure enclosing the first particles of thermoplastic with enclosing pigment in a first cartridge, and second particles of thermoplastic from an enclosure enclosing second particles of thermoplastic effectively without pigment in the second cartridge.

20 A method of making a removable partial dental prosthesis comprising an artificial tooth and an opaque base comprising pigment integrally connected to a substantially transparent clasp, comprising:

providing a mold having a mold cavity and containing said artificial tooth,

injecting substantially transparent thermoplastic into a first portion of said mold cavity,

injecting substantially opaque thermoplastic into a second portion of said mold cavity,

whereby said removable partial dental prosthesis is formed.

21. A system for making a partial denture, comprising: a package, a first cartridge and a second cartridge, said package supporting said first cartridge and said second cartridge, said first cartridge enclosing pigment and first particles of thermoplastic polyamide having a Charpy notched impact strength of at least 3.5 ft-lb/in², and said second cartridge enclosing second particles of thermoplastic, said second particles of thermoplastic polyamide having a Charpy notched impact strength of at least 3.5 ft-lb/in² enclosed in said second cartridge being effectively free of pigment.

22. The device of Claim 21 wherein said polyamide comprises at least 20 percent by weight of micro-crystals having a largest dimension less than 750 nanometers.

23. The device of Claim 21 wherein said polyamide comprises at least 30 percent by weight of micro-crystals having a largest dimension less than 750 nanometers.

24. The device of Claim 21 wherein said polyamide has an opacity of less than 30 percent.

25. A dental device comprising thermoplastic polyamide having at least 10 percent by weight of micro-crystals having a largest dimension less than 750 nanometers.

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